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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/809,736	03/14/2001	Takayoshi Kurita	1503.65307	5363
24978	7590 08/02/2004		EXAMINER	
GREER, BURNS & CRAIN 300 S WACKER DR			KLIMACH,	PAULA W
25TH FLOOR		•	ART UNIT	PAPER NUMBER
CHICAGO, II	L 60606		2135	

DATE MAILED: 08/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comment	09/809,736	KURITA, TAKAYOSHI				
Office Action Summary	Examiner	Art Unit				
	Paula W Klimach	2135				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the second of the	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133)				
Status						
1) Responsive to communication(s) filed on <u>06 July</u>	uly 2004.					
2a) This action is FINAL . 2b) ☐ This	action is non-final.					
3) Since this application is in condition for allowa						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-12 is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-12</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/c	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correc						
11)☐ The oath or declaration is objected to by the Ex	kaminer. Note the attached Offic	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list.	ts have been received. Is have been received in Application in the second in the seco	tion No ved in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summar Paper No(s)/Mail [
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 		Patent Application (PTO-152)				
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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1, 3-6, and 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kimlinger et al (6,360,952 B1) in view of Comerford et al (5,109,413).

In reference to claims 1, 9-12, Kimlinger discloses an access management system managing access to smart card a plurality applications (column 3 lines 37-38). The system responds to a request to access the smart card from an application (Fig. 4 A-I).

However Kimlinger does not disclose the exclusive access of the smart card and allowing access when the smart card when the application has already been authenticated.

Comerford discloses a system wherein the rights to execute software are conditional. On of the conditions to access software is the number of times of execution (column4 lines 21-26). By making a condition of execution of the software, the number of times that the software, when the number of times for execution of the software is only 1 then there is exclusive access to the token and disk (smart card), since the counter would go to zero (column 19 lines 5-22). This would be exclusive access of the smart card because after the application has executed no other application will be allowed access since the counter would be zero, and therefore the conditions for execution, would not allow the application to execute.

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At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to include the conditions for execution as in Comerford in the system of Kimlinger. One of ordinary skill in the art would have been motivated to do this because it would provide the software vendor flexibility and therefore a return policy by being able to control the conditions of executing the software.

In reference to claim 3, wherein the access control unit rejects the access request from the application allowed the exclusive access if the application has not been authenticated for the smart card. The system disclosed by Comerford authenticates the token and therefore would not allow access if the token was not authentic.

Kimlinger does not disclose authentication of the token before the application executes.

The access control unit disclosed by Comerford suggests rejecting the access request from the application allowed the exclusive access if the application has not been authenticated for the smart card (column 18 lines 9-25). The system disclosed by Comerford authenticates the token and therefore would not allow access if the token was not authentic

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to include the authentication of Comerford in the system of Kimlinger. One of ordinary skill in the art would have been motivated to do this because it would provide the software vendor flexibility and therefore a return policy by being able to control the conditions of executing the software.

In reference to claim 4, wherein said access control unit manages authentication between an application and smart card using a process ID of the application.

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Kimlinger does not disclose the use of the process ID of the application to authenticate the application.

Comerford suggest the use of the process ID of the application to manage the authentication between the application and the token (smart card) before execution. This is performed the application looking for the execution criterion and would therefore need the process ID to identify the application (column 19 lines 4-12).

In reference to claim 5, wherein said access control unit changes an application authenticated for a smart card into non-authenticated application when the smart card is extracted from a smart card reader (Fig. 4 C). Kimlinger disloses checking if there is a smart card in the reader before turning the smart card on, therefore suggesting that the smart card becomes non-authentic when it is extracted.

In reference to claim 6, wherein when said application accesses the smart card plural times, said application issues the exclusive access request to said exclusion control unit each time the access is started, and issues an exclusive access cancellation notification to said exclusion control unit each time the access terminates (column 9 lines 26-32).

Claim 2, 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kimlinger and Comerford as applied to claim 1 above, and further in view of Silberschatz.

In reference to claims 2 and 7, wherein the exclusion control unit queues an application that issues an exclusive access request in response an exclusive access request for the smart card from the application when the smart card has no logical channel exclusively accessed by another application.

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Kimlinger and Comerford do not dislosses the control unit queues an application that issues an access request.

Silberschatz discloses a monitor that uses a First Come First Serve Queue (FCFS) to control the access of one resource (pages 187-188).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use a queue to control the access of resources as disclosed by Silberschatz in the system of Kimlinger. One of ordinary skill in the art would have been motivated to do this because it would ensure that the process that waits the longest for the resource will be able to use it first.

In reference to claim 8, wherein the access control unit request a smart card to cancel authentication an application, in response to a smart card authentication cancellation notification from when the application authenticated for the smart card smart authentication application, last application

Kimlinger and Comerford do not disclose the access control unit request a smart card to cancel authentication an application, in response to a smart card authentication cancellation notification from when the application authenticated for the smart card smart authentication application, last application

Silberschatz discloses the release of a resource when the queue is ended and therefore the cancellation of the authentication application when the application is the last application (page 187).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use a queue to control the access of resources as disclosed by Silberschatz in the

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and make

system of Kimlinger. One of ordinary skill in the art would have been motivated to do this because it would ensure that the process that waits the longest for the resource will be able to use it first.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paula W Klimach whose telephone number is (703) 305-8421. The examiner can normally be reached on Mon to Thr 9:30 a.m to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (703) 305-4393. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PWK

Saturday, July 24, 2004

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